

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently amended): A method ~~of increasing motility of sperm, the method~~ comprising the steps of:

a) providing from ~~[[a]]~~ an infertile male subject having a spinal cord injury a biological sample comprising sperm and at least one cytokine selected from the group consisting of TNF α , IL1 β , and IL6; and

b) contacting the biological sample in vitro with an agent that inactivates or reduces the biological activity of the at least one cytokine ~~selected from the group consisting of TNF α , IL1 β , and IL6~~ under conditions that result in increased sperm motility, wherein the sperm having increased motility can be used to impregnate a female subject and
~~increasing motility of sperm.~~

Claim 2 (Canceled).

Claim 3 (Currently amended): The method of claim ~~[[2]]~~ 1, wherein the male subject has ~~condition is~~ leukocytospermia.

Claim 4 (Canceled).

Claim 5 (Original): The method of claim 1 wherein the biological sample comprises a fluid produced by the male reproductive tract.

Claim 6 (Original): The method of claim 1, wherein the biological sample comprises semen.

Claim 7 (Canceled).

Claim 8 (Original): The method of claim 1, wherein the agent is an antibody that specifically binds to the at least one cytokine.

Claim 9 (Original): The method of claim 8 wherein the at least one cytokine comprises TNF α .

Claim 10 (Original): The method of claim 8 wherein the at least one cytokine comprises IL1 β .

Claim 11 (Original): The method of claim 8 wherein the at least one cytokine comprises IL6.

Claim 12 (Currently amended): The method of claim 1, wherein the agent is an antibody that specifically binds to a receptor for the at least one cytokine, ~~receptor~~ the receptor selected from the group consisting of TNF α receptor, IL1 β receptor, and IL6 receptor.

Claim 13 (Currently amended): The method of claim 12, wherein the ~~at least one cytokine~~ receptor comprises a TNF α receptor.

Claim 14 (Currently amended): The method of claim 12, wherein the ~~at least one~~ ~~eytokine~~ receptor comprises an IL1 β receptor.

Claim 15 (Currently amended): The method of claim 12, wherein the ~~at least one~~ ~~eytokine~~ receptor comprises an IL6 receptor.

Claim 16 (Original): The method of claim 1, wherein the agent is a soluble cytokine receptor that specifically binds to the at least one cytokine.

Claim 17 (Original): The method of claim 16, wherein the soluble cytokine receptor comprises a soluble TNF α receptor.

Claim 18 (Original): The method of claim 16, wherein the soluble cytokine receptor comprises a soluble IL1 β receptor.

Claim 19 (Original): The method of claim 16, wherein the soluble cytokine receptor comprises a soluble IL6 receptor.